



राष्ट्रीय पादप जीनोम अनुसंधान संस्थान

(जैव प्रौद्योगिकी विभाग, विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार का स्वायत्त अनुसंधान संस्थान)

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(An Autonomous Institution of the Department of Biotechnology, Ministry of Science and Technology, Government of India)

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Aruna Asaf Ali Marg, Post Box Number 10531, New Delhi-110067

संख्या: 8/2015/रा.पा.जी.अनु.सं./एस एण्ड पी

दिनांक: 24/9/2014

विषय / Subject: मुहरबंद कोटेशन का निमंत्रण / Invitation of Sealed Quotations

Sir,

We are interested to purchase 01 no. each of **Advance Microscope grade Digital Camera, Automated Image Analysis Software** as per the following specifications. In addition to this, 02 nos. of existing Hund make Stereomicroscope Model SM 4-AD-Zoom and Compound Microscope with fluorescence need servicing.

Camera and software:

High resolution Digital camera with 1/2.5" chip, live display system on PC with at least 5 MP. Having 2592 horizontal and 1944 vertical pixel resolution (hardware), pixel size less than 2.5 μm x 2.5 μm .

The shutter speed should be controlled remotely via PC for light enhancement. Correction of gamma and brightness should be included in the software for journal quality images.

The time of exposure vary between 0.1ms to 0.3s. Both automatic and manual exposure feature to be present.

Area white balance and automatic white balance on the basis of maximum details available on the screen.

Working temperature range should be at least between -10°C and ~ 70°C

Image size can be changed by changing the camera setting to reduce wastage of Hard disk space. Programmable control for Image size, exposure time, brightness, gain, Gamma Correction, color, contrast, Saturation

Wave length (nm): 400-650nm (IR-Cut added)

Video Mode: 2592*1944; 1600*1200; 1280*1024; 640*480.

Software should include: Measurements for distance, angle, length, width, perimeter and three point radius. Area by enclosed line controlled by four arrow keys available on the keyboard arrow with zoomed preview. The Line measurement must not be effected on zoomed images. Image Analysis Software should be able to handle monochrome (8 bits) and color (24 bits) images. Multiple image display option for simultaneous comparison is necessary. Ability to observe and capture real time images on same platform.

Identification of objects in an image, count them, obtain several features measurements.

Interactive File Format available for saving the files.

Universal adaptor for the installation of camera on the Microscope.

Cont. 2



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The signal-to noise (S/N) ratio should be less than 45 dB

Warranty for 2 years and on-site training of camera and software usage.

Microscope servicing

The servicing and repair of optics of two Hund microscopes: 1. Stereomicroscope model SM 4-AD Zoom and 2. Compound microscope with fluorescence and phase-contrast V300.

You are therefore; requested to please send your offer along with a copy of authorization certificate. The quotations must accompany a Demand Draft amounting to ₹ 2,500/- (Rupees Two Thousand Five Hundred only), being the EMD in the name of Director, NIPGR, New Delhi and must be sent in a **Sealed Envelope** duly super-scribed on top of envelope as "**Quotation for camera / Software / Servicing**" so as to reach to the undersigned latest by **14/10/2014** (3:00 P.M.), the same shall be opened on same day at 03:30 P.M. The companies may quote their rates keeping in view of both requirements and upon inspection of the existing microscopes during office hours.

धन्यवाद,

(कय एवं भण्डार अधिकारी)